

In the Claims

1-20. (Cancelled)

21. (New) A metal-supported porous carbon film wherein metal fine particles with a mean particle diameter of 0.7 – 20 nm are dispersed and supported on pore surface walls and wherein from 15% to 95% of the metal fine particles consist of multiply twinned particles.

22. (New) The metal-supported porous carbon film according to claim 21, wherein the metal fine particles contain platinum.

23. (New) The metal-supported porous carbon film according to claim 21, wherein the metal fine particles undergo chemical reduction of the metal compound with a reducing agent via a catalyst on the pore surfaces of the porous carbon film for fine dispersion of the metal fine particles.

24. (New) The metal-supported porous carbon film according to claim 23, wherein the catalyst is a palladium compound supported on a carbon film.

25. (New) The metal-supported porous carbon film according to claim 21 wherein the multiply twinned particles are composed mainly of platinum.

26. (New) A fuel cell electrode comprising a metal-supported porous carbon film according to claim 21.

27. (New) A membrane-electrode assembly comprising fuel cell electrodes according to claim 26 bonded on both sides of a polymer electrolyte film.

28. (New) A fuel cell comprising a fuel cell electrode, according to claim 26, as a constituent element.

29. (New) The metal-supported porous carbon film according to claim 22, wherein the metal fine particles undergo chemical reduction of the metal compound with a reducing agent via a catalyst on the pore surfaces of the porous carbon film for fine dispersion of the metal fine particles.

30. (New) The metal-supported porous carbon film according to claim 29, wherein the catalyst is a palladium compound supported on a carbon film.

31. (New) A fuel cell electrode comprising a metal-supported porous carbon film according to claim 21.

32. (New) A fuel cell electrode comprising a metal-supported porous carbon film according to claim 25.